

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 1    | base.clm. and frame.clm. and chamber.clm. and unit.clm. and sealing.clm. and member.clm. and interval.clm. and groove.clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/09 11:43 |
| L2    | 2    | ((("20020062787") or ("5952676"))).PN.   | US-PGPUB;<br>USPAT  | OR               | OFF     | 2007/07/09 11:44 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 1    | base.clm. and frame.clm. and chamber.clm. and unit.clm. and sealing.clm. and member.clm. and interval.clm. and groove.clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/09 11:43 |
| S14 4 | 3    | LCD and (bonding or bonder or bond) and (ionizer) and "156"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 23:24 |
| S14 5 | 0    | LCD and (bonding or bonder or bond) and (ionizer) and "29"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |
| S14 6 | 0    | LCD and (bonding or bonder or bond) and (ionizer) and "438"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |
| S14 7 | 0    | "156"/\$.ccls. and (thermoccompression) and (chamber near10 transparent)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |
| S14 8 | 0    | "100"/\$.ccls. and (thermoccompression) and (chamber near10 transparent)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |
| S14 9 | 0    | "156"/\$.ccls. and (thermoccompression) and (chamber near5 window)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |
| S15 0 | 0    | "100"/\$.ccls. and (bonding or bonder or bond) and (chamber near5 window) and LCD  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/19 22:48 |

## EAST Search History

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|----------|--------|---|---|----|-----|------------------|
| S15<br>1 | 0      | "100"/\$.ccls. and (bonding or bonder or bond) and (chamber near5 window) and CD  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S15<br>2 | 1564   | (156/580).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S15<br>3 | 9594   | (LCD or CD or dvd or (optical near3 disk)) and (case or shield) and (vacuum near3 chamber)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S15<br>4 | 581744 | (LCD or CD or dvd or (optical near3 disk)) and (case or shield) and (vacuum near3 chamber) and (bond\$4 or press\$4) and "156"/\$.ccls. andnot plasma | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S15<br>5 | 729    | (156/581).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S15<br>6 | 556    | (29/833).CCLS:  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S15<br>7 | 612    | (29/834).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S15<br>8 | 1      | ("6789595").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S15<br>9 | 1      | "100"/\$.ccls. and (bonding or bonder or bond) and (case near10 transparent)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S16<br>0 | 1   | S152 and (observation near4 window)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S16<br>1 | 38  | ((("20010021000") or ("4,094,058") or ("4,691,995") or ("5,875,922") or ("6,304,311") or ("5,247,377") or ("5,511,591") or ("5,642,214") or ("5,742,370") or ("6,011,609") or ("6,016,178") or ("6,055,035") or ("6,163,357") or ("6,226,067") or ("6,304,306") or ("6,414,733") or ("3,978,580") or ("4,653,864") or ("4,775,225") or ("5,263,888") or ("5,379,139") or ("5,406,989") or ("5,499,128") or ("5,507,323") or ("5,539,545") or ("5,548,429") or ("5,680,189") or ("5,757,451") or ("5,852,484") or ("5,854,664") or ("5,861,932") or ("5,952,678") or ("5,956,112") or ("6,001,203") or ("6,016,181") or ("6,219,126") or ("6,236,445") or ("6,337,730"))).PN. | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S16<br>2 | 168 | LCD and (bonding or bonder or bond) and (align or aligner or aligning or alignment) and "156"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S16<br>3 | 100 | LCD and (bonding or bonder or bond) and (align or aligner or aligning or alignment) and "29"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S16<br>4 | 15  | LCD and (bonding or bonder or bond) and (ion near10 gas) and "29"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S16<br>5 | 36  | LCD and (bonding or bonder or bond) and (ionizer) and gas  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |

## EAST Search History

|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S16<br>6 | 60  | LCD and (load or loading or loader or unload or unloading or unloader) and (ionizer) and gas | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S16<br>7 | 16  | "156"/\$.ccls. and (thermocompression) and (case near10 transparent)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S16<br>8 | 43  | LCD and (bonding or bonder or bond) and (observation near5 window)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S16<br>9 | 14  | "156"/\$.ccls. and (bonding or bonder or bond) and (observation near5 window)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S17<br>0 | 10  | "156"/\$.ccls. and (bonding or bonder or bond) and (chamber near5 window) and LCD            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S17<br>1 | 14  | "156"/\$.ccls. and (bonding or bonder or bond) and (chamber near5 window) and CD             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S17<br>2 | 76  | S152 and (window)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S17<br>3 | 199 | LCD and (bonding or bonder or bond) and (chamber near10 transparent)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |

## EAST Search History

|          |     |  |   |    |     |                  |
|----------|-----|--|---|----|-----|------------------|
| S17<br>4 | 141 | "156"/\$.ccls. and (bonding or bonder or bond) and (chamber near10 transparent)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S17<br>5 | 142 | (LCD or CD or dvd or (optical near3 disk)) and (case or shield) and (vacuum near3 chamber) and (bond\$4 or press\$4) and "156"/\$.ccls. not plasma | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S17<br>6 | 253 | (156/379).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S17<br>7 | 303 | (156/381).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S17<br>8 | 442 | "156"/\$.ccls. and (bonding or bonder or bond) and (case near10 transparent)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S17<br>9 | 540 | (LCD or CD or dvd or (optical near3 disk)) and (case or shield) and (vacuum near3 chamber) and (bond\$4 or press\$4) and "156"/\$.ccls.            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S18<br>0 | 456 | (156/358).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S18<br>1 | 487 | (156/351).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 23:33 |

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|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S18<br>2 | 856  | (156/378).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S18<br>3 | 955  | (156/382).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S18<br>4 | 1419 | (156/556).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S18<br>5 | 1564 | (156/580).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S18<br>6 | 19   | LCD and (bonding or bonder or bond)<br>and (ion near10 gas) and "156"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S18<br>7 | 229  | "156"/\$.ccls. and (bonding or bonder<br>or bond) and (chamber near5 window)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S18<br>8 | 564  | (LCD or CD or dvd or (optical near3<br>disk)) and (case or shield) and<br>(vacuum near3 chamber) and "156"/\$.<br>ccls. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/20 15:52 |
| S18<br>9 | 1334 | (load near3 cell) and (bonding or<br>bonder or bond) and (chamber) and<br>(stage or chuck)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S19<br>0 | 62   | (load near3 cell) and (bonding or bonder or bond) and (chamber) and (stage or chuck) and ("156"/\$.ccls. or "29"/\$.ccls.)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>1 | 1    | ("20040114095").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S19<br>2 | 31   | LCD and (bonding or bonder or bond) and (interval near4 groove)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>3 | 3122 | LCD and (bonding or bonder or bond) and (groove)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>4 | 102  | LCD and (bonding or bonder or bond) and (groove) and ("156"/\$.ccls. or "29"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>5 | 70   | LCD and (bonding or bonder or bond) and ((loader or loading) near4 (arm or finger))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>6 | 9    | (bonding or bonder or bond) and (wafer same ((loader or loading) near4 (arm or finger))) and ("156"/\$.ccls. or "29"/\$.ccls.)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>7 | 1    | (bonding or bonder or bond) and (wafer same ((loader or loading) near4 (grip or gripping))) and ("156"/\$.ccls. or "29"/\$.ccls.) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S19<br>8 | 1    | (bonding or bonder or bond) and (wafer and ((loader or loading) near4 (grip or gripping))) and ("156"/\$.ccls. or "29"/\$.ccls.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |

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|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S19<br>9 | 9   | (bonding or bonder or bond) and (wafer same ((loader or loading) near4 (grip or gripping)))                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>0 | 44  | LCD and (bonding or bonder or bond) and (actuator with shaft with (sensing or detecting or detector or sensor)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>1 | 2   | LCD and (bonding or bonder or bond) and (actuator with shaft with (load with cell))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>2 | 392 | LCD and (bonding or bonder or bond) and ((load with cell))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>3 | 2   | LCD with (bonding or bonder or bond) with ((load with cell))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>4 | 2   | LCD same (bonding or bonder or bond) same ((load with cell))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>5 | 360 | (bonding or bonder or bond) with ((load with cell))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>6 | 28  | (bonding or bonder or bond) with ((load with cell)) and LCD   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |

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|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S20<br>7 | 148 | (bonding or bonder or bond) with ((groove)) and LCD   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>8 | 9   | (bonding or bonder or bond) with LCD and ((driving or drive) same (shaft or pole) same jack)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S20<br>9 | 1   | (bonding or bonder or bond) with (matrix or TFT or "liquid crystal" or LCD) and (vacuum with transmitter) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>0 | 1   | (bonding or bonder or bond) with (chuck) and (vacuum with transmitter)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>1 | 31  | (bonding or bonder or bond) with (chuck) and (vacuum with nozzle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>2 | 22  | "279"/\$.ccls. and (chuck) and (vacuum with nozzle)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>3 | 10  | (bonding or bonder or bond) and (substrate with loader) same (vacuum with nozzle)                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>4 | 0   | (bonding or bonder or bond) and (substrate with loader) and finger. with (vacuum with nozzle)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |

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|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S21<br>5 | 0   | (bonding or bonder or bond) and (loader) and finger with (vacuum with nozzle)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>6 | 24  | (bonding or bonder or bond) and finger with (vacuum with nozzle)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>7 | 0   | (substrate with loader) with finger with (vacuum with nozzle)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>8 | 0   | (substrate with loader) same finger same (vacuum with nozzle)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S21<br>9 | 5   | (substrate with loader) same finger same (vacuum)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S22<br>0 | 4   | (wafer with loader) same finger same (vacuum)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S22<br>1 | 55  | LCD and (bonding or bonder or bond) and (locking with shaft)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/19 22:48 |
| S22<br>2 | 153 | "156"/\$.ccls. and (bonding or bonder or bond) and ("O-ring" with (groove or shaftor hole)) | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB              | OR | ON | 2007/06/19 22:48 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S22<br>3 | 199 | (loader) same finger same (groove)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>4 | 27  | (loader) with finger with (groove)                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>5 | 8   | (loader) with gripper with (groove)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>6 | 57  | (loader) with finger with slot                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>7 | 26  | wafer with gripper with groove                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>8 | 42  | wafer with gripper and "118"/\$.ccls.                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S22<br>9 | 146 | wafer with finger with slot                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S23<br>0 | 1   | ("20020170938").PN.                                     | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S23<br>1 | 51  | wafer with finger with slot and<br>(groove with finger) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |

## EAST Search History

|          |     |   |   |    |     |                  |
|----------|-----|---|---|----|-----|------------------|
| S23<br>2 | 553 | (414/941).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/06/19 22:48 |
| S23<br>3 | 0   | wafer with finger with slot and<br>(suction with finger)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S23<br>4 | 437 | finger with slot and (suction with<br>finger)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S23<br>5 | 1   | ("6705500").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S23<br>6 | 105 | wafer with gripper and "414"/\$.ccls.<br>and (vacuum or suction)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S23<br>7 | 10  | (bond or bonding) with (press) and<br>(grripper or finger) with suction and<br>(groove or slot) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/19 22:48 |
| S23<br>8 | 1   | ("6665043").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S23<br>9 | 1   | ("20050167036").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S24<br>0 | 1   | ("5407519").PN.   | US-PGPUB;<br>USPAT  | OR | OFF | 2007/06/19 22:48 |
| S24<br>1 | 402 | (o with ring) with (groove or slot) and<br>(sealing with height)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/20 15:53 |
| S24<br>2 | 6   | (o with ring) with (groove or slot) and<br>(sealing with height) and "156"/\$.ccls.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/09 11:42 |

## EAST Search History

|          |    |   |   |    |    |                  |
|----------|----|---|---|----|----|------------------|
| S24<br>3 | 50 | (o with ring) with (groove or slot) and (sealing with height) and (bonding or bonder)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/20 16:22 |
| S24<br>4 | 6  | (o with ring) with (groove or slot) and (interval with control) and "156"/\$.<br>ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/20 16:36 |
| S24<br>5 | 29 | (o with ring) with (groove or slot) and (interval with control) and (bonding or bonder) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/20 16:37 |